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APPLICATION NO.	FILING DA	TE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/714,131	11/14/2003		Rajashri Joshi	N0177US	9928	
37583	7590 04/13/2004		EXAMINER			
	ION TECHNOI IANDISE MART	HERNANDEZ, OLGA				
SUITE 900, PATENT DEPT.				ART UNIT	PAPER NUMBER	
CHICAGO, IL 60654				3661	3661	
				DATE MAILED: 04/13/2004	DATE MAILED: 04/13/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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•		Application No.	Applicant(s)			
		10/714,131	JOSHI, RAJASHRI			
	Office Action Summary	Examiner	Art Unit			
		Olga Hernandez	3661			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHOF THE MA - Extensic after SIX - If the pe - If NO pe - Failure t Any repl	RTENED STATUTORY PERIOD FOR REPLY AILING DATE OF THIS COMMUNICATION. ons of time may be available under the provisions of 37 CFR 1.13 (6) MONTHS from the mailing date of this communication. riod for reply specified above is less than thirty (30) days, a reply wind for reply is specified above, the maximum statutory period we or reply within the set or extended period for reply will, by statute, by received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONED	ely filed swill be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status						
2a)∐ Ti 3)∐ Si	Responsive to communication(s) filed on <u>14 November 2003</u> . This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition	n of Claims					
4a 5)□ C 6)⊠ C 7)□ C	Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-16 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.					
Application	n Papers					
10)⊠ Th Ap Ro	ne specification is objected to by the Examiner ne drawing(s) filed on 14 November 2003 is/ar applicant may not request that any objection to the deplacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Example 1.	re: a)⊠ accepted or b)⊡ objected or b)⊡ objected or b)⊡ objected rawing(s) be held in abeyance. See on is required if the drawing(s) is object.	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority und	der 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) 🔲 Notice o	f References Cited (PTO-892) f Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (Paper No(s)/Mail Dat	e			
3) 🛛 Informat	ion Disclosure Statement(s) (PTO-1449 or PTO/SB/08) o(s)/Mail Date <u>2</u> .	5) Notice of Informal Pa	stent Application (PTO-152)			

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DETAILED ACTION

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-16 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims1-11 of U.S. Patent No. 6,681,177. Although the conflicting claims are not identical, they are not patentably distinct from each other because the use of different language for making the claims broader does not include any new subject matter.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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Claims 1-6, 14, 15 and 16 are rejected under 35 U.S.C. 102(e) as being anticipated by Mine (6,138,084).

As per claims 1, 14 and 16, Mine teaches:

- comparing an approximation of distance along a road segment between two points to a straight-line distance between the two points (column 4, lines 14-19); and
- storing a result of the comparing as an indication of curvature of the road segment between the two points (column 4, lines 20-35).

As per claims 2 and 3, Mine discloses the indication of how much the road curves to adjust a speed of a vehicle (column 1, lines 10-22).

As per claim 4, Mine discloses comparing shape point data representing coordinates at locations along the roads (figure 4).

As per claim 5, Mine discloses the application in a vehicle (figure 1).

As per claim 15, Mine discloses the use of a database in figure 4.

As per claim 6, Mine discloses:

- at selected locations along a road, determining a bowing coefficient (column 4, lines 10-20),
- wherein the bowing coefficient at each of the selected locations corresponds to a comparison between an approximation of a distance along the road between two points on the road on *either* side of the selected location *and* a straight-line distance between the two points (column 4, lines 21-29); and

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- using the bowing coefficient as an indication of curvature of the road between the two points (column 4, lines 30-35).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7, 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mine (6,138,084) in view of Pocket Reference, page 317.

Mine discloses a method of representing how much a road curves, road geometry, operating a vehicle and forming a geographic database as claimed except for selecting only two points along a road and comparing the approximate distance between the two points, along the road, to a straight line distance between the two points to determine how much the road curves or the bowing coefficient of the road. The Pocket Reference at page 317, the last formula on the page, gives the relationship between the bowing coefficient (m) and the distance along a curved road (angle θ).

 $m = \frac{1}{2}c tan \frac{1}{4}\theta = 2 r sin^2 \frac{1}{4}\theta$.

Therefore, it would have been obvious to use the geometric relationship between two points on a curved road and a straight line between the two points to determine the bowing coefficient of the road, as taught by the Pocket Reference, in place of utilizing three points along the road to determine the same relationship as disclosed in Mine.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Olga Hernandez whose telephone number is (703) 305-0918. The examiner can normally be reached on Monday through Friday from 8:30 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black can be reached on (703) 305-8233. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Olga Hernandez Examiner Art Unit 3661

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